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FLAGSTAFF, ARIZONA, THURSDAY, JULY 15, 1897.

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SECRET SOCIETIES.

A O. U. W.-FLAGSTAFF LODGE, No. 13, Meets every Thursday night. in G. A. hall. Visiting Workmen are cordially ludted. C. A. BUSH, M. W. LOUIS SPIERS. Recorder.

OURT COCONINO. I. O. F., NO. M., neets every Tuesday evening in G. A., all. Visiting brethren cordially invited tiend. DR. D. J. BRANNEN. C. R. Louis Spiers. R. S.

FLAGSTAFF LODGE NO. 7. F. & A. M. Regular meetings on the first Saturda night of each calendar month in Masoni Ball. Kilpatrick building. Sojournin brethren cordually invited.

J. GUTHRIE SAVAGE. Secretary.

FOREST CAMP, NO. 1, WOODMEN of the World, meets the first and third Rondays in each month, in the G. A. E. Hail. Visiting Sovereigns cordially welcome.

T. S. BUNCH, Counsel Com.
T. E. PULLIAM. Clerk.

G. A. R.—REGULAR MEETINGS OF Ranson Post. G. A. R. No. 4 Depart ment of Arizona. will be held in G. A. R. hal on second and last Saturday in each month E. E. JONES, Commander. E. H. CRESS, Post Adjutant.

I O. O. F.—FLAGSTAÞF LODGE. NO. II meets every Fridag evening in Masonic hall. Visiting brethren cordially invited. J. E. JONES, N. G. J. L. DOUGHERTY. Secretary.

MOUNTAIN LODGE, NO. 16. K. OF P. C. II. CORLE, K. of R. S.

CHURCH DIRECTORY.

CATHOLIC CHURCH, REV. P. DILLY.
Pastor. On Sundays: Low Mass at 7:35
o'clock a. m.; High Mass at 10 a. m. Sunday
School at 11 a. m. Evening services at 7:30
p. m. On week days: Mass at 7 a. m
On the second Sunday of each month, prayer
meeting at 10 a. m.; Sunday School at 11
a. m. All cordially invited.

FIRST M. E. CHURCH, CORNER OF Church and Lareux Streets, C P. Witson, Pastor. Preaching at 11 a. m. and 7 p. m. Sundays; Sunday school at 10 a. m. Oscar Gibson, Superintendent. Class meetings at 12:16 p. m. Epworth League 6:30 p. m. Frayer meeting Wednesday evening at 7:30 Everybody welcome.

North Sun Francisco street, H. P. Corser, pastor, Sabbath services: Preaching 1 a. m. and 8 p. m.; Sunday school, 16 a. n.; Y. P. S. C. E. prayer meeting, 7:15 p. m. iid-week conference and prayer, Wednesday evening at 8 p. m. A cordial invitation extended to all.

FLAGSTAFF, ARIZ.

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A New Copper District Richer Than the Lake Superior Region.

I. H. McClintock Visits the Field and Describes it in Detail-"Among the Richest and Most Remarkable of Arizona."

James H. McClintock, the wellknown newspaper man of Phoenix, visited the Grand Canyon copper district last month and gives the following as his impressions of this new mining region:

Crossing the northern portion of Arman lies the far-famed Canyon of the Colorado river-the Grand Canyon -pre-eminent, incomparable, the depth of 7,000 feet from the surface and where for hundreds of miles the strata are exposed far deeper than in any mine on earth. It is the ideal region for the prospector, for Nature has already done the "development work" on the claims that he may discover gypsum. and locate. Arizona throughout is "mineralized" to an extent unknown probably to any other country. It is therefore logical that the erosion of the river's channel has exposed many rich most startling. The highest in altiledges of the precious ores, for many years successfully mined in other parts of the Southwest.

I spent four weeks of May and June of the current year among the mines copper mines I believe are among the zona and I speak from an experience that embraces investigation of all the other copper camps of the Territory. Most notable of the Canyon district

mines are those which lie on or near to | you's rim. the Canyon's southern rim. For a distance of about fifteen miles south carboniferous in character, bears copper and iron in appreciable quantities. From the evidence of the prospectors and my own observations I would say throughout very high. that the really valuable portion of this immease deposit is about three miles in width and at least lifeon miles in length, the length being from north to south.

last October. There was even more for fully 1,200 feet of depth. The lothan the usual excitement over new fieds when the specimens found were exhibited and the cold and snow of the Hogan lead. succeeding winter months did not prevent the staking of more than 200 claims. Little more than the statutory assessment work has been done on any of them and the deepest workings at the time of my departure were down only thirty-live feet. That far down the ore preserved uniformity of character and richness.

In character the ores are carbonates, black and red oxides, handsome ores, mainly of the azurite and malachite varieties. They are found only where the limestone has been disturbed through seismic setion, and never where the regular stratification of the region remains undisturbed. They are invariably closely associated with the Imestone and run high in iron, forming an ore that carries to the smelter its own flux. The percentages of copper run high. I have seen many large s recimens that exceeded 50 per cent. Good authorities state that the average Tais is 400 pounds of metal to the 10a. The ores of the Lake Superior region of ore.

MINES OF THE GRAND CANYON, far exposed are underlaid with others. | quartz at the surface and further down But to-day, on the dumps of one com- in pyrites. One ledge of the pyrites is pany alone (the Tusayan Development company of which Lombard, Goode & Co., of Chicago, New York and London are the Eastern representatives and financial agents) are several thousand tons of ore taken out in simple assessment and surface development work and tens of thousands more tons are exposed in the cuts and tunnels and drifts. It would be a rich dis rict worthy of capital and of reduction works, if the ore bodies were no deeper than they have already been developed.

But there is no doubt that the greatest riches of the district are at even greater depths. I believe that in the district will yet be the deepest workings known to miners anywhere on the face of the globe. The copper is without doubt eruptive in its deposition. It has been vomited from the depths of the earth, and found lodgment in the tiven lime and sandstone rocks, spreadgrandest gash known on the face of ing out, branch-like, from the cleft of course are to be found the mother lodes. Then Nature, with her iron, lime and oxygen, leached off the suiphur. Perhaps this will account for immense beds of sulphate of lime,

This eruptive theory is carried out on inspection of the names of the Cauyon's depths. I found three "mother lodes" of copper at depths that are althe veritable mineral spout that overof the current year among the mines of the current year among the mines of the Grand Canyon district. The lt is of the basest black sulphide, asden in the debris of the Canyon's side; its top is fully 800 feet below the Can-

> The Cameron mine, twenty miles up the the river, is one of the first disfrom the rim. The ores vary, though call "our own, our native land." mainly chaly-pyrite. They assay ap to 72 per cent. of metal and average

cation is not far from the bottom of the Bass trail, fifteen miles below the

erage flow of 100 miner's inches, or to oreathe. nearly 1,000 gallons a minute. Sev- Last night I witnessed one of the eral other such water powers can be most picturesque scenes of my life. approximate Niagara would be the main mast; the stars shown as I have power to be secured from Cataract sever seen them in the northern laticreek. I should judge the minimum tudes, they came down and almost orado river within ten miles is fully 3,000 feet.

of the ores piled up on the dumps of rim. Coal could be secured from Gal- deck was covered with groups of merry the district will exceed 20 per cent. lup, on the Atlantic & Pacific, just makers singing in the Kanaka tongue across the Arizona line, or from the some of the most pensive and plaintive Little Colorado mines, if it were made melodies so characteristic of Hawaiian down to sixteen pounds to the tou riage. Coke could be obtained from maiden accompaning the airs by the Trididad, Colo., at low cost.

200 feet in width. It assays tittle in gold but would be of immense value for the production of sulphuric acid. for the reduction of sulpuretic copper ores by the Swedish process. Lead carbonates carrying silver are found on Cataract creek. The unusual products include long staple asbestos, salt and several kinds of precious stones.

Of course a volume could be written on the possibilities of mineral development in such a region. I have done little more than indicate the possibilities. I believe the district will soot be known as one of the greatest mineral producers of the world.

J. CURTIS WASSON.

crat" While in Mid Ocean.

S. S. AUSTRALIA, MID-OCEAN, Int. 26 deg. 10 min., long. 149 deg. 2 min., June 21, 1897 .- EDITORS SUN-DEMOnature, where rocks are riven to the the principal eruptions, where now of CRAT: Thinking, perhaps, a letter from mid-ocean might be of interest, I write concerning our trip.

We weighed anchor at the San Francisco barbor at 2 p. m.. June 15. the presence in the near vicinity of The wharf was crowded with passengers. friends, visitors spectators and pearance on the dock were some half blood Kanakas. They were a bright tude is the Hogan claim of the Tusayan eyed, dark complexioned, kindly look, drev, the friendly conversations of company, considered by the company's ing, free, happy careless set of people. manager, Gen. W. O. O'Neill, to be They were down to bid adieu to some of their tribe euroute for their loved

riciest and most remarkable of Ari- It is a monster to site, exposed along harbor, I, profiting by past experience, c's infetone and finestone con for 400 look precontionary measures by going I had meaved a quiet tip on the side feet width of ore body. Its base is hid- to my stateroom and laying down, by one of the sailors, and when the In a short time I returned to the main deck to watch the last vestage of land whistle blowed, the passengers from slowly recede from sight. There is an their staterooms, the cooks from the awful feeling, a weird foreboding, connected with the slowly dropping per deck. They asked where the fire and for forty miles along the line of covered and has been worked for from the vision of all the traces of the the Canyon the country limestone, years. It has a depth of 2,200 feet land which we have been pleased to back and forth upon the gangways.

Perhaps a short description of our vessel would be of interest. Name, Australia; buit, 1877; cost, \$250,000; The third ledge of copper ore was tonnage, 3000 tons; length, 398 feet; at the very bottom of the Canyon, in width, 34 feet; men in crew, including the primeval granite, 5,000 feet from cooks, stewards, mechanics, sailors, the surface and dipping below the bed officers, etc., 98; first-class cabin passof the stream. This ledge has never engers, 49; steerage passengers, 75; This copper district on the southern been worked and has but lately been total number on board, 222; velocity, rim is modern indeed. The first loca- discovered. It has a width of about about 13 knots per hour, or 305 miles at 9 o'clock, when I hope to enter my cations of any importance were made sixty feet and its ore face is exposed per day. The menu and accommodations are in every way first-class.

> The goonies (a kind of seaguli) are constantly following us, like death or fate. They are crossing hither and The question of reduction is gener, thither, sailing around and around, ally one of the weightiest in copper now rising to extreme heights, now mining. Some of the ores of the dis-dipping their wings into the waves trict have been valuable enough to beneath. The water reflects a deep ship to Pueblo, Colo., and Aguas Cal- indigo blue; and to watch the flying ientes. Mexico, for smelting. The lish skipping over the coested waves, waters of the Indian garden creek can then dart and dive into the briny blue be readily piped with a fall of at least beneath is really a lovely sight, while 3,000 feet to the Colorado's level, the occasionally in the merge of the horipower to be returned by electric wire zon may be seen the spouting of some to the summit. The creek has an av- lonely whale as he comes to the surface

seemed to complement the blue be-Timber there is in plenty on the the hour was half past eight. The movements. weird, but persuasive tingle of the



very sweet instruments and well adapted to pieces in waltz time. Whenever a song in waltz time was sung, a dozen couples would dance about in rhythmic time as the melody mingled with the air of heaven. The while the boat kept stately time tothe rhythmic flow of voices on her deck. The sailors, jolly old tars who have entered all the ports of the world, seem quite indifferent as to whether scamen. The day was quite clear and or not they enter any in the next, as all were eager for the voyage On the they sit in groups fore and aft smoking whatf were representatives of all their "pipes of peace and spinning their nationalities, but preeminent in ap- yarns of nantical lore." The officers, from captain down, pacing the decks to and fro, the merry chatter of chilpeople from all nooks of mother earth, from Gibraiter to Samon, the genial sociability, all these tend to make the evening one not soon to be forgotten.

saying over 10 per cent in copper, of their fluest ship-) sailed out of the ship especially exerting, save the tree alarm drill this morning at 10 o'clock. alarm was given the bells rang, the kitchen, all rushed pell mell upon upwas and grasping their children ran-The hose men unwound the bose, the sailors turned on the water and imagine the chagrin felt by the passengers when they realized that 'twas only a. fire drill. It was interesting to see how each one would talk; they all said they were not frightened, but simply wanted to know what was the matter.

> To-morrow we anchor in Honolula field of labor as per contract with the Oceanic Steamship Company.

Fillbusters Land Safely.

NEW YORK, July 12 .- A special tothe Journal and Advertiser from Havann says that an expedition of Cuban tilibusters from Florida is reported tohave lauded on Suuday in Havana province, in the mouth of Jaruco Bay. The Spanish gunboat Reina Maria Christina, which was cruising about the const, endeavored to intercept the expedition, but without success.

When the cruiser arrived at the spot and disembarked her marines, they were fired upon and driven to their boats by a strong rebel force in ambush. After a brief bombardment of developed at other points along the The sea was clear, the wind was quiet the insurgent's position, the warship Canyon's side. Something that would and gently flapped the sails on the burnled to Havana for reinforcements. When she returned with them the fillbusters had already left with their munitions and supplies for Castillo's flow of this stream to be about 50,000 seemed to meet their dual reflection headquarters in the Tapaste Hills. miners' inches. The drop to the Col- in the watery waves; the blue above closely pursued by Fonsdeveila's Spanish column, which had marched neath; the sound of one bell told that overland from Minas to intercept their

Grocer Schloogel's Revenge.

KANSAS CITY, Mo., July 11 .- Dr. A. L. Berger, one of the best-known are worked with profit when they run possible to use the river for its car- music; on a deck chair sat a Kanaka physicians of Kansas City, was shot and killed this afternoon by John Schloegel, a grocer. Schloegel, when As to quantity: The ore lies horisontally, or nearly so, and no man of the Grand Canyon region it is by no her side performs on the ukulili. Both the tare-patchi and ukulili are being treated as a patient.